

30. The nucleic acid molecule of claim 29, comprising nucleotides 73 to 1251 of SEQ ID NO:3.

31. The nucleic acid molecule of claim 27, comprising a polynucleotide encoding an amino acid sequence at least 90% identical to amino acids 1 to 417 of SEQ ID NO:4.

32. The nucleic acid molecule of claim 31, comprising a polynucleotide encoding an amino acid sequence at least 95% identical to amino acids 1 to 417 of SEQ ID NO:4.

33. The nucleic acid molecule of claim 32, comprising a polynucleotide encoding amino acids 1 to 417 of SEQ ID NO:4.

34. The nucleic acid molecule of claim 33, comprising nucleotides 1 to 1251 of SEQ ID NO:3.

35. The nucleic acid molecule of claim 27, further comprising a heterologous polynucleotide.

36. The nucleic acid molecule of claim 35, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

37. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 27 into a vector.

38. A vector comprising the nucleic acid molecule of claim 27.
39. The vector of claim 38, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
40. A host cell comprising the nucleic acid molecule of claim 27.
41. The host cell of claim 40, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
42. A method of producing a polypeptide which comprises culturing the host cell of claim 41 under conditions such that said polypeptide is expressed, and recovering said polypeptide.
43. An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence at least 90% identical to the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.
44. The nucleic acid molecule of claim 43, comprising a polynucleotide encoding an amino acid sequence at least 95% identical to the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

45. The nucleic acid molecule of claim 44, comprising a polynucleotide encoding the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

46. The nucleic acid molecule of claim 43, comprising a polynucleotide encoding an amino acid sequence at least 90% identical to the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

47. The nucleic acid molecule of claim 46, comprising a polynucleotide encoding an amino acid sequence at least 95% identical to the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

48. The nucleic acid molecule of claim 47, comprising a polynucleotide encoding the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

49. The nucleic acid molecule of claim 43, further comprising a heterologous polynucleotide.

50. The nucleic acid molecule of claim 49, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

51. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 43 into a vector.

52. A vector comprising the nucleic acid molecule of claim 43.

53. The vector of claim 52, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

54. A host cell comprising the nucleic acid molecule of claim 43.

55. The host cell of claim 54, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

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*B2* 56. A method of producing a polypeptide which comprises culturing the host cell of claim 55 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

57. An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence selected from the group consisting of:

- (a) amino acids 1 to 22 in SEQ ID NO:2;
- (b) amino acids 33 to 56 in SEQ ID NO:2;
- (c) amino acids 59 to 82 in SEQ ID NO:2; and
- (d) amino acids 95 to 112 in SEQ ID NO:2.

58. The nucleic acid molecule of claim 57, which comprises a polynucleotide encoding amino acids 1 to 22 of SEQ ID NO:2.

59. The nucleic acid molecule of claim 57, which comprises a polynucleotide encoding amino acids 33 to 56 of SEQ ID NO:2.

60. The nucleic acid molecule of claim 57, which comprises a polynucleotide encoding amino acids 59 to 82 of SEQ ID NO:2.

61. The nucleic acid molecule of claim 57, which comprises a polynucleotide encoding amino acids 95 to 112 of SEQ ID NO:2.

62. The nucleic acid molecule of claim 57, further comprising a heterologous polynucleotide.

63. The nucleic acid molecule of claim 62, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

64. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 57 into a vector.

65. A vector comprising the nucleic acid molecule of claim 57.

66. The vector of claim 65, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

67. A host cell comprising the nucleic acid molecule of claim 57.

68. The host cell of claim 67, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

69. A method of producing a polypeptide which comprises culturing the host cell of claim 68 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

70. An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence selected from the group consisting of:

- (a) amino acids 179 to 190 in SEQ ID NO:2; and
- (b) amino acids 196 to 205 in SEQ ID NO:2.

71. The nucleic acid molecule of claim 70, which comprises a polynucleotide encoding amino acids 179 to 190 of SEQ ID NO:2.

72. The nucleic acid molecule of claim 70, which comprises a polynucleotide encoding amino acids 196 to 205 of SEQ ID NO:2.

73. The nucleic acid molecule of claim 70, further comprising a heterologous polynucleotide.

74. The nucleic acid molecule of claim 73, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

75. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 70 into a vector.

76. A vector comprising the nucleic acid molecule of claim 70.

77. The vector of claim 76, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

78. A host cell comprising the nucleic acid molecule of claim 70.

79. The host cell of claim 78, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

80. A method of producing a polypeptide which comprises culturing the host cell of claim 79 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

81. An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence which is at least 95% identical to a reference amino acid sequence selected from the group consisting of:

- (a) amino acids 25 to 201 in SEQ ID NO:4;
- (b) amino acids 202 to 224 in SEQ ID NO:4;
- (c) amino acids 225 to 417 in SEQ ID NO:4; and

(d) amino acids 342 to 408 in SEQ ID NO:4.

82. The nucleic acid molecule of claim 81, which comprises a polynucleotide encoding an amino acid sequence at least 95% identical to the amino acid sequence of (a).

83. The nucleic acid molecule of claim 82, which comprises a polynucleotide encoding the amino acid sequence of (a).

84. The nucleic acid molecule of claim 83, which comprises nucleotides 73 to 603 of SEQ ID NO:3.

85. The nucleic acid molecule of claim 81, which comprises a polynucleotide encoding an amino acid sequence at least 95% identical to the amino acid sequence of (b).

86. The nucleic acid molecule of claim 85, which comprises a polynucleotide encoding the amino acid sequence of (b).

87. The nucleic acid molecule of claim 86, which comprises nucleotides 604 to 672 of SEQ ID NO:3.

88. The nucleic acid molecule of claim 81, which comprises a polynucleotide encoding an amino acid sequence at least 95% identical to the amino acid sequence of (c).



89. The nucleic acid molecule of claim 88, which comprises a polynucleotide encoding the amino acid sequence of (c).

90. The nucleic acid molecule of claim 89, which comprises nucleotides 673 to 1251 of SEQ ID NO:3.

91. The nucleic acid molecule of claim 81, which comprises a polynucleotide encoding an amino acid sequence at least 95% identical to the amino acid sequence of (d).

92. The nucleic acid molecule of claim 91, which comprises a polynucleotide encoding the amino acid sequence of (d).

93. The nucleic acid molecule of claim 92, which comprises nucleotides 1024 to 1224 of SEQ ID NO:3.

94. The nucleic acid molecule of claim 81, further comprising a heterologous polynucleotide.

95. The nucleic acid molecule of claim 94, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

96. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 81 into a vector.

97. A vector comprising the nucleic acid molecule of claim 81.
98. The vector of claim 97, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.
99. A host cell comprising the nucleic acid molecule of claim 81.
100. The host cell of claim 99, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

101. A method of producing a polypeptide which comprises culturing the host cell of claim 100 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

102. An isolated nucleic acid molecule comprising a first polynucleotide which hybridizes to the complement of a second polynucleotide consisting of the nucleotide sequence of the coding region of SEQ ID NO:1 under the following conditions:

(a) incubating overnight at 42°C in a solution consisting of 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA; and

(b) washing at 65°C in a solution consisting of 0.1x SSC;

wherein said first polynucleotide encodes at least 50 contiguous amino acids of SEQ ID NO:2.

103. The nucleic acid molecule of claim 102, further comprising a heterologous polynucleotide.

104. The nucleic acid molecule of claim 103, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

105. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 102 into a vector.

106. A vector comprising the nucleic acid molecule of claim 102.

107. The vector of claim 106, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

108. A host cell comprising the nucleic acid molecule of claim 102.

109. The host cell of claim 108, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

110. A method of producing a polypeptide which comprises culturing the host cell of claim 109 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

111. An isolated nucleic acid molecule comprising a first polynucleotide which hybridizes to the complement of a second polynucleotide consisting of the nucleotide sequence of the coding region of SEQ ID NO:1 under the following conditions:

(a) incubating overnight at 42°C in a solution consisting of 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA; and

(b) washing at 65°C in a solution consisting of 0.1x SSC;  
wherein said first polynucleotide encodes an active death domain.

112. The nucleic acid molecule of claim 111, further comprising a heterologous polynucleotide.

113. The nucleic acid molecule of claim 112, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

114. A method of producing a vector which comprises inserting the nucleic acid molecule of claim 111 into a vector.

115. A vector comprising the nucleic acid molecule of claim 111.

116. The vector of claim 115, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

117. A host cell comprising the nucleic acid molecule of claim 111.

118. The host cell of claim 117, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

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119. A method of producing a polypeptide which comprises culturing the host cell of claim 118 under conditions such that said polypeptide is expressed, and recovering said polypeptide.--

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*Remarks*

After cancellation of claims 1-21 and 23-26 and entry of the claims set out above, claims 22 and 27-119 will be pending in the captioned application, with claims 22, 27, 43, 57, 70, 81, 102, and 111 being the independent claims.

***I. The Restriction Requirement***

The Examiner has restricted the originally filed claims into the following groups:

- I. Claims 1 to 21, drawn to an isolated nucleic acid, classified in class 435, subclass 69.1.
- II. Claim 22, drawn to an isolated protein, classified in class 530, subclass 350.
- III. Claim 23, drawn to an antibody, classified in class 530, subclass 388.22.
- IV. Claim 24, in so far as it is drawn to a method of treatment by administering a receptor protein, classified in class 514, subclass 2.
- V. Claim 24, in so far as it is drawn to a method of treatment by administering a compound of unspecified constitution which is an agonist of a receptor protein, classification undeterminable.